

## ABSTRACT

For

### A METHOD FOR DATA TRANSMISSION IN A CELLULAR TELECOMMUNICATION SYSTEM

The present invention proposes a method for data transmission in a cellular telecommunication system, in which system data are transmitted in units of bursts, each burst occupying a time slot (TS[j]) of one of consecutive frames (F[i]), each respective frame comprising a predetermined number (n) of time slots (TS[j]),  $j=\{0,\dots,n-1\}$ , and, within a single time slot (TS[j]) of each frame (F[i]), data can be transmitted between a first transceiver device (BS) and a respective one of a plurality of second transceiver devices (MS) in a first transmission direction (DL) from said first transceiver device (BS) to said respective second transceiver device (MS) or in a second transmission direction (UL) from said respective second transceiver device (MS) to said first transceiver device (BS), wherein during a first frame (F[i]) of consecutive frames respective second transceiver devices (MS) perform transmission with said first transceiver device (BS) during a time slot (TS[k]) assigned thereto for transmission, and during a subsequent second frame (F[l=1]) of said consecutive frames, respective second transceiver devices (MS) perform transmission with said first transceiver device (BS) during a different time slot (TS[1]) assigned thereto for transmission, with  $0 \leq k, 1 \leq n-1$  and  $k \neq 1$ .